



**ES WIRKT.**

Safety Data Sheet according to Regulation (EC) No 1907/2006 (REACH)

**Zylinder-Spray**

Print date 23.01.2024  
Revision date 23.05.2023  
Version 9.1 (en)  
replaces version of 12.01.2023 (9.0)

**\* SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifier**

Trade name/designation Zylinder-Spray

**\* 1.2 Relevant identified uses of the substance or mixture and uses advised against**

**\* Use of the substance/mixture**

Protects against corrosion, is water resistant, creppy

**Remark**

UFI: FUMC-N1FW-K00P-3Y8J

**1.3 Details of the supplier of the safety data sheet**

**Supplier**

F.W.Klever  
Hauptstraße 20  
D-84168 Aham  
Telephone +49 (0) 8744 96 99 10  
Telefax + 49 (0) 8744 96 99 96  
E-mail info@ballistol.de  
Website www.ballistol.de

Department responsible for information:

Qualitätssicherung  
Telephone +49 (0) 8744 96 99 80

E-mail (competent person):

info@ballistol.de

**Manufacturer**

F.W.Klever  
Hauptstraße 20  
D-84168 Aham  
Telephone +49 (0) 8744 96 99 10  
Telefax + 49 (0) 8744 96 99 96  
E-mail info@ballistol.de  
Website www.ballistol.de

Department responsible for information:

Qualitätssicherung  
Telephone +49 (0) 8744 96 99 80

E-mail (competent person):

info@ballistol.de

**1.4 Emergency telephone number**

Emergency CONTACT (24-Hour-Number): GBK GmbH +49 (0)6132-84463

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008 [CLP]	Classification procedure
Aerosol 1, H222	



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Classification according to Regulation (EC) No 1272/2008 [CLP]

Classification procedure

Aerosol 1, H229

Hazard statements for physical hazards

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]

Hazard pictograms



GHS02

Signal word

Danger

Hazard statements

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.

Precautionary statements

P102 Keep out of reach of children.
P101 If medical advice is needed, have product container or label at hand.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501 Dispose of contents/container to recycling

2.3 Other hazards

No data available

SECTION 3: Composition / information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

Hazardous ingredients

Table with 8 columns: CAS No, EC No, Index No, Substance name, Concentration, Classification according to Regulation (EC) No 1272/2008 [CLP], SCL/ M/ ATE. Rows include butane, Hydrocarbons C11-C14, and propane.



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**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

**Following inhalation**

Provide fresh air.  
In the event of symptoms refer for medical treatment.

**Following skin contact**

After contact with skin, wash immediately with plenty of water and soap.

**After eye contact**

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

**Following ingestion**

If swallowed, immediately drink:  
Water  
Seek medical advice immediately.

**4.2 Most important symptoms and effects, both acute and delayed**

No data available

**4.3 Indication of any immediate medical attention and special treatment needed**

**Notes for the doctor**

Treat symptomatically.

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**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

**Suitable extinguishing media**

Foam  
ABC-powder  
Carbon dioxide (CO<sub>2</sub>)  
Water spray jet

**Unsuitable extinguishing media**

Full water jet

**5.2 Special hazards arising from the substance or mixture**

**Hazardous combustion products**

In the event of fire the following can be released:  
Nitrogen oxides (NO<sub>x</sub>)  
Carbon monoxide

**5.3 Advice for firefighters**

**Special protective equipment for firefighters**

In case of fire: Wear self-contained breathing apparatus.

**Additional information**

Use water spray jet to protect personnel and to cool endangered containers.  
Heating causes rise in pressure with risk of bursting  
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.



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**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

**For non-emergency personnel**

Remove all sources of ignition.  
Wear breathing apparatus if exposed to vapours/dusts/aerosols.  
Special danger of slipping by leaking/spilling product.

**6.2 Environmental precautions**

Do not allow to enter into surface water or drains.

**6.3 Methods and material for containment and cleaning up**

**For containment**

Take up residues with absorbent material (e.g. sawdust).

**For cleaning up**

Clean contaminated articles and floor according to the environmental legislation.

**6.4 Reference to other sections**

No data available

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**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

**Protective measures**

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

Do not spray on naked flames or any incandescent material.

Keep away from sources of ignition - No smoking.

Protect aerosols from temperatures exceeding 50°C/ 122°F

Do not inhale gases/vapours/aerosols.

**Advices on general occupational hygiene**

Remove contaminated, saturated clothing immediately.  
Wash hands before breaks and after work.

**7.2 Conditions for safe storage, including any incompatibilities**

**Requirements for storage rooms and vessels**

Keep/Store only in original container.

**Further information on storage conditions**

Recommended storage temperature: room temperature.

Storage time: 3 years.

**7.3 Specific end use(s)**

No data available



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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

Table with 4 columns: CAS No, EC No, Substance name, occupational exposure limit value. Contains data for n-Butane with various exposure limits.

8.2 Exposure controls

Personal protection equipment

Eye/face protection

With demand: protective glasses

Hand protection

Gloves (oil-resistant)
Recommendation: protective glove (referred to EN374).

Respiratory protection

Respiratory protection must be worn whenever the WEL levels have been exceeded
The following applies to propane in general: If the concentration is exceeded, closed-circuit breathing apparatuses must be used
Use filter apparatus type AX, identification colour brown according to EN 371

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state

Aerosol

Colour

light yellow

Odour

characteristic

Safety relevant basis data

Table with 4 columns: Property, Value, Method, Source, Remark. Lists safety data such as odour threshold, melting point, boiling point, and explosion limits.



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	Value	Method	Source, Remark
Flash point	approx. -104 °C		(Propan)
Auto-ignition temperature	not determined		
Decomposition temperature	not determined		
pH	not determined		
Viscosity	kinematic approx. 28 (20°C)		information concerns to liquid phase
Solubility(ies)	Water solubility		Immiscible
Partition coefficient n-octanol/water (log value)	not determined		
Vapour pressure	not determined		
Density and/or relative density	approx. 0.9 g/cm <sup>3</sup> (20°C) pressure 1013 mbar		information concerns to liquid phase
Relative vapour density	not determined		
particle characteristics	not determined		

**9.2 Other information**

**Other safety characteristics**

	Value	Method	Source, Remark
refraction index	1.48 (20°C)		

**SECTION 10: Stability and reactivity**

**10.1 Reactivity**

No data available

**10.2 Chemical stability**

No data available

**10.3 Possibility of hazardous reactions**

No data available

**10.4 Conditions to avoid**

Container under pressure. Protect from direct exposure to sunlight and temperatures exceeding 50°C/122°F.

**10.5 Incompatible materials**

Oxidising agent, strong

**10.6 Hazardous decomposition products**

Carbon monoxide  
Carbon dioxide

**Additional information**

Product is stable under normal storage conditions



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SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Animal data

Table with 4 columns: Hazard, Effective dose, Method, Evaluation, Source, Remark. Rows include Acute oral toxicity, Acute dermal toxicity, and Acute inhalation toxicity.

Skin corrosion/irritation

not determined

Serious eye damage/irritation

Animal data

Table with 4 columns: Result / Evaluation, Method, Source, Remark. Row includes slightly irritant.

Sensitisation to the respiratory tract

not determined

Skin sensitisation

Animal data

Table with 4 columns: Result / Evaluation, Dose / Concentration, Method, Source, Remark. Row includes not sensitising.

Germ cell mutagenicity

not determined

Carcinogenicity

not determined

Reproductive toxicity

not determined

STOT-single exposure

not determined

STOT-repeated exposure

not determined

Aspiration hazard

not determined

11.2 Information on other hazards

No data available

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Table with 4 columns: Hazard, Effective dose, Method, Evaluation, Source, Remark. Rows include Acute (short-term) fish toxicity and Chronic (long-term) fish toxicity.



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	Effective dose	Method,Evaluation	Source, Remark
Acute (short-term) toxicity to crustacea	not determined		
Chronic (long-term) toxicity to aquatic invertebrate	not determined		
Acute (short-term) toxicity to algae and cyanobacteria	not determined		
Chronic (long-term) toxicity to aquatic algae and cyanobacteria	not determined		
Toxicity to other aquatic plants/organisms	not determined		
Toxicity to microorganisms	not determined		

**12.2 Persistence and degradability**

	Value	Method	Source, Remark
Biodegradation			Moderately/partially biodegradable.

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

No data available

**12.6 Endocrine disrupting properties**

No data available

**12.7 Other adverse effects**

No data available

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

**Waste codes/waste designations according to EWC/AVV**

Waste code product	Waste name
130205 *	mineral-based non-chlorinated engine, gear and lubricating oils

**Appropriate disposal / Package**

Non-contaminated packages may be recycled.  
Recycle sales packaging via DSD (Duales System Deutschland).

**SECTION 14: Transport information**

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.1 UN number or ID number</b>	UN 1950	UN 1950	UN 1950
<b>14.2 UN proper shipping name</b>	AEROSOLS	AEROSOLS	Aerosols, flammable
<b>14.3 Transport hazard class(es)</b>	2.1	2.1	2.1





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	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.4 Packing group</b>	-	-	-
<b>14.5 Environmental hazards</b>	No	No	No
<b>14.6 Special precautions for user</b>	No data available		
<b>14.7 Maritime transport in bulk according to IMO instruments</b>	No data available		

**Land transport (ADR/RID)**

UN number or ID number UN 1950  
UN proper shipping name AEROSOLS  
Transport hazard class(es) 2.1  
Hazard label(s) 2.1  
Classification code 5F  
Packing group -  
Environmental hazards No  
Limited quantity (LQ) 1 L  
Special provisions 190, 327, 344, 625  
Tunnel restriction code D

**Sea transport (IMDG)**

UN number or ID number UN 1950  
UN proper shipping name AEROSOLS  
Transport hazard class(es) 2.1  
Packing group -  
Environmental hazards No  
Limited quantity (LQ) 1 L  
Marine pollutant No  
EmS F-D, S-U

**Air transport (ICAO-TI / IATA-DGR)**

UN number or ID number UN 1950  
UN proper shipping name Aerosols, flammable  
Transport hazard class(es) 2.1  
Packing group -  
Environmental hazards No

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**SECTION 15: Regulatory information**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

No data available



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**15.2 Chemical Safety Assessment**

For this substance a chemical safety assessment is not required.

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**SECTION 16: Other information**

**Additional information**

National and local regulations concerning chemicals shall be observed. The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

**Relevant H- and EUH-phrases (Number and full text)**

- H220 Extremely flammable gas.
- H304 May be fatal if swallowed and enters airways.
- H412 Harmful to aquatic life with long lasting effects.

**Indication of changes**

\* Data changed compared with the previous version